

PATENT ABSTRACTS OF JAPAN

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(54) COSMETIC FOR ORAL LIP

(57)Abstract:

PURPOSE: To obtain a cosmetic for oral lips containing synthetic mica powder and a liquid oil under a specific condition, excellent in usability, little in the blotting of the cosmetic, and capable of preventing the lack of luster.

CONSTITUTION: The cosmetic for the oral lips contains 5-50wt.% of a synthetic mica of formula $X_{1/3}-1Y_{2-3}(Z_4O_{10})F_{1.5-2}$ (X is Na⁺, K⁺, Li⁺, Ca²⁺, Rb²⁺, Sr²⁺; Y is Mg²⁺, Fe²⁺, Ni²⁺, Mn²⁺, Al³⁺, Fe³⁺, Li⁺; Z is Al³⁺, Si⁴⁺, Ge⁴⁺, B³⁺ and 5-50wt.% of a liquid oil (e.g. macadamia nut oil) having an I.O.B value of 0-0.2. Further, a solid oil, a semi-solid oil, a liquid oil excluding the liquid oil a coloring agent, a humectant, a perfume, an antioxidant an IR light-absorbing agent, water, etc., in proper amounts, respectively. The cosmetic can be prepared into a lip stick, a lip base for foundations, etc. The cosmetic for the oral lips is excellent in employment properties such as natural finish, good smell, softness, extendibility and wetness, and can be coated on a lip to give a beautiful color without causing the blotting of a lip stick to produce its indistinct outline.

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CLAIMS

[Claim(s)]

[Claim 1] Cosmetics for lips characterized by an I.O.B. value blending less than 0.2 liquefied oil with synthetic mica fine particles exceeding 0.

[Claim 2] Cosmetics for lips according to claim 1 whose synthetic mica is synthetic fluorine phlogopite.

[Claim 3] I. Claim 1 whose less than 0.2 liquefied oil an O.B. value is a macadamia-nuts oil exceeding 0 thru/or cosmetics for lips given in claim dyadic.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention is finished automatically, and a smell is good and is related with smooth mileage and the cosmetics for the lips which it excels in usability, such as admiration, gently, and there are few blots of the cosmetics for lips in the passage of time, and prevent the dullness of lips.

[0002]

[Description of the Prior Art] The cosmetics for lips are usually sticks-like, and consist of solid oil and half-solid oil, liquefied oil, and a coloring agent. The coloring agent of weight was blended with a small amount of coloring agent which gives an appearance color to the lip base for the inner substrates of the cosmetics for lips, and the lip stick about 1 to 20%, it is this formula within the limits, and the target thing has been obtained by replacing loadings with suitably.

[0003] However, after applying to a lip, the blot came out with the passage of time, and the lip stick adjusted to suitable usability combining these oil and coloring agents had the trouble of having made a lip stick profile indistinct and making it dirty. Moreover, even if there is an inclination for the color of lips to be somber with age and it applied the lip stick, there was a trouble that it may be hard to obtain satisfactory beautiful coloring.

[0004]

[Problem(s) to be Solved by the Invention] By replacing with the extender currently used conventionally, as a result of repeating research wholeheartedly, without having bled in the passage of time in view of the above-mentioned situation, and making a lip stick profile indistinct in order to obtain the cosmetics for lips out of which apply to the lip which is somber with age, and a beautiful color comes, and blending a low polar liquefied oil with synthetic mica fine particles, this invention person finds out that this technical problem can be solved, and came to complete this invention.

[0005]

[Means for Solving the Problem] That is, this invention is cosmetics for lips characterized by an I.O.B. value blending less than 0.2 liquefied oil with synthetic mica fine particles exceeding 0.

[0006] Hereafter, this invention is explained to a detail. The synthetic mica used for this invention is a phyllosilicate mineral obtained by scorification, the hydrothermal method, or the reacting-between solid-states method, the good synthetic mica fine particles of a crystal mix the compound containing a potassium, sodium, magnesium, aluminum, silicon, a fluorine, etc. at a fixed rate, and this is obtained by performing mechanical grinding after melting, crystallization, and cooling. Generally, after mixing silicic acid anhydride the about 40 sections, magnesium-oxide the about 30 sections, aluminum-oxide the about 13 sections

and, and potassium-silicofluoride the about 17 sections in the case of synthetic fluorine phlogopite, it fuses by 1,400 - 1,500 **, and crystallizes by further 1,300 - 1,400 **, and it is the synthetic fluorine phlogopite $\text{KMg three F(AlSi 3O10) 2}$. It obtains. It grinds, the obtained ore lump is classified in them, if required for the cosmetics of this invention, and it is blended with them as synthetic mica fine particles. In addition, in order to improve the elution of a fluorine, the synthetic mica which made the number of mols of F 75 - 99 two-mol% of the stoichiometry is also contained in the range of this invention by heat-treating synthetic mica by 600 -1,350°C. There are a synthetic muscovite, synthetic phlogopite, a synthetic biotite, etc. in synthetic mica, and these synthetic mica fine particles are blended with it in one sort or two sorts or more by this invention.

[0007] If synthetic mica expresses with a general formula, it is as follows.

$\text{X}_{1/3} -1 \text{ Y}_{2/3} \text{ F(Z4 O10)}_{1.5} -2$ (among a formula) X is 1 chosen from the group which consists of Na^+ , K^+ , Li^+ , calcium $^{2+}$, Rb^{2+} , and Sr^{2+} . The ion beyond a seed is expressed. Y -- Mg^{2+} , Fe^{2+} , nickel $^{2+}$, Mn^{2+} , aluminum $^{3+}$, Fe^{3+} , and Li^+ from -- 1 chosen from the becoming group 1 chosen from the group to which the ion beyond a seed is expressed, and which Z becomes from aluminum $^{3+}$, Si^{4+} , germanium $^{4+}$, Fe^{3+} , and B^{3+} The ion beyond a seed is expressed.

[0008] The following is mentioned as a concrete example of synthetic mica.

$\text{KMg three F(AlSi 3O10) 2}$ Potassium phlogopite $\text{KMg 2.5F(Si 4O10) 2}$ Potassium 4 silicon mica $\text{NaMg three F(AlSi 3O10) 2}$ Sodium phlogopite $\text{KMg2 Li(Si 4O10) F2}$ potassium TENIO light $\text{NaMg2.5 (Si 4O10) F2}$ Sodium 4 silicon mica $\text{K}_{2/3} \text{ Mg}_{2/3} \text{ Li}_{1/3} \text{ F(Si 4O10)}_{2\text{Na}_{1/3} \text{ Mg}_{2/3} \text{ Li}_{1/3} \text{ F(Si 4O10) 2}}$ Sodium hectorite [0009] desirable synthetic mica - - usability, blot prevention, and dullness -- the synthetic phlogopite from the point of effectiveness, such as amendment, -- it is -- inside -- synthetic fluorine phlogopite $\text{KMg three F(AlSi 3O10) 2}$ It is desirable and the Topy Industries mica ST (HS) is mentioned as a commercial item. Among the cosmetics whole quantity for lips, 5 - 50 % of the weight is desirable still more desirable, and the loadings to the cosmetics for lips of the synthetic mica fine particles of this invention are 10 - 30 % of the weight. At less than 5 % of the weight, if the effectiveness of blot prevention exceeds 50 % of the weight rather than is enough, usability will worsen. In blending with cosmetics, if needed, the synthetic mica fine particles of this invention may be combined, after performing these compound processings further, processing by siliconization, the fluoridization, metallic soap processing, ester processing, fatty-acid processing, surfactant processing or the acid, alkali, and inorganic acids, and.

[0010] The I.O.B. value of the liquefied oil used for this invention is less than 0.2 low polar oil exceeding 0. Preferably, an I.O.B. value is oil of 0.01-0.19, and are 0.07-0.18 still more preferably. Here, I.O.B. is the value which the contractor concerned asked for non-chemical bond intermolecular force as two values of a nonpolar:polarity from the chemical structure of an organic compound by the well-known Fujita ** "the organic concept by the organic nature:inorganic value." In this invention, one sort of these oil or two sorts or more are blended. I. O.B. value about 0.4 castor oil bleeds, and does not have the effectiveness of prevention, and its liquid paraffin of the I.O.B. value 0 is not enough as the blot prevention effectiveness, either. I. Although an O.B. value has a macadamia-nuts oil (I. O.B.=0.175), olive oil (I. O.B.=0.165), glyceryl TORIISO stearate (I. O.B.=0.16), jojoba oil (I. O.B.=0.078), etc. as an example of less than 0.2 liquefied oil exceeding 0, from the point of effectiveness, a macadamia-nuts oil is the best. I. The O.B. value of the loadings of less than 0.2 liquefied oil is 10 - 30 % of the weight preferably five to 50% of the weight among the cosmetics for lips exceeding 0.

[0011] The solid oil, the half-solid oil, and liquefied oil other than this invention other than the above-mentioned indispensable oil can blend with the cosmetics for lips of this invention in the range which does not spoil the effectiveness of this invention. As an example of these oil, solid paraffin, a micro crystallin wax, A ceresin, a candelilla low, a carnauba wax, Japan

wax, vaseline, Solids, such as hydrogenated castor oil, yellow bees wax, spermaceti wax, and lanolin, half-solid oil, Vegetable oil, such as castor oil, safflower oil, soybean oil, and tea seed oil Liquid paraffin, Hydrocarbon oils, such as squalene, myristic-acid isopropyl, octanoic-acid cetyl, Myristic-acid octyldodecyl, palmitic-acid isopropyl, butyl stearate, 12-hydroxy stearin acid cholesteryl, G 2-ethylhexanoic acid ethylene glycol, Dipentaerythritol fatty acid ester, malate diisostearyl, G 2-heptyl undecanoic acid glyceride, tree 2-ethylhexanoic acid trimethylol propane, Tori isostearic acid trimethylol propane, tetra--2-ethylhexanoic acid pentane erythritol, Tree 2-ethylhexanoic acid glyceryl, Tori isostearic acid trimethylol propane, Cetyl-2-ethylhexanoate, tree 2-heptyl undecanoic acid glyceryl, The cetostearyl alcohol, palmitic-acid 2-heptyl undecanoic acid glyceryl, Liquefied oil, such as ester oil, such as cetostearyl alcohol, palmitic-acid 2-heptyl undecyl, and N-lauroyl-L-glutamic acid-2-octyldodecyl ester, is mentioned. In this invention, raw materials usually used for cosmetics, such as a coloring agent, a moisturizer, perfume, an antioxidant, an ultraviolet ray absorbent, and water, can blend further in the range which does not spoil the effectiveness of this invention. The lip base for substrates and a lip stick are raised as cosmetics for lips of this invention.

[0012]

[Example] Hereafter, the suitable example of this invention is explained. This invention is not limited by these. In addition, all loadings are weight %s.

[0013] The engine performance of the cosmetics for lips performed organic-functions evaluation by the real use test by 20 special panels. The following notation showed the evaluation result.

O Inside of **:20 persons less than 16 persons judged that are good 12 or more persons among :20 persons among O:20 persons 16 or more persons judged that are good Inside of x:20 persons less than 12 persons judged that are good eight or more persons [0014] less than eight persons judged that is good Example 1 : Lip base (1) polyethylene wax 5.0 (2) ceresins 5.0 (3) carnauba waxes 7.0 (4) GURISERIRUTORI 2 ethylhexanoate A 39.0(5) macadamia-nuts oil 20.0(6) composition phlogopite fine particles *1 20.0(7) red iron oxide 2.0 (8) Synthetic Ochre 2.0*1:KMg three F(AlSi 3O10) 2 [the Topy Industries mica ST (HS)]

[0015] After having added synthetic phlogopite, the coloring agent (Synthetic Ochre, red iron oxide) beforehand scoured by a part of liquefied oil, and perfume after adding solid oil into <manufacturing method> liquefied oil and carrying out the heating dissolution in 90 - 100 oC, and carrying out stirring distribution, it slushed into the lip stick container, it cooled, and the lip base of this invention was obtained.

[0016] <Evaluation result> It smells, and it is somber, and it turns out O, are [feeling of use] O, are [blot prevention] O, and that the lip base; example -1 of this invention is very excellent so that clearly from the amendment O above. Next, an example and the example of a comparison are given further and the effectiveness of this invention is described.

[0017]

[Table 1]

the lip base	Example	Example	Example	Example	Example	A
raw material name	2	3	4	5	6	polyethylene wax 5.0 5.0 5.0 5.05.0
Ceresin wax	5.0	7.0	5.0	5.0	5.0	Carnauba wax 7.0 7.0 5.0 7.07.0 GURISERIRUTORI 2-
ethylhexanoate	29.0	52.0	21.0	49.0	39.0	Macadamia-nuts oil 20.0 20.0 40.0 10.0 30.0
Synthetic phlogopite fine-particles *1	30.0	5.0	20.0	20.0	10.0	Red iron oxide 2.0 2.02.0 2.0
2.0 Synthetic Ochre	2.02.0	2.0	2.0	2.0	2.0	It smells. O O O O O A
feeling of use	O O O O O	Blot prevention	O O O O O	It is somber and amends.	O O O O O	---

----- [0018]

[Table 2]

The lip base	Example of a comparison	Example of a comparison	Example of a comparison	Example of a comparison	Example A	raw material name	1	2	3	4	7
Example of a comparison	Example of a comparison	Example of a comparison	Example of a comparison	Example of a comparison	Example A	raw material name	1	2	3	4	7

----- Polyethylene wax 5.0 5.0 5.0 5.0 A 5.0 ceresin wax 5.0 5.0 5.0
 5.0 5.0 carnauba waxes 7.0 7.0 7.0 7.0 7.0 GURISERIRUTORI 2-ethylhexanoate 39.0 39.0
 39.0 39.0 56.0 macadamia-nuts oil -- -- 20.0 20.0 20.0 liquefied lanolin 20.0 -- -- -- liquid
 paraffin -- 20.0 -- -- -- composition phlogopite fine particles *1 20.0 20.0 -- -- 3.0 natural
 muscovite -- -- 20.0 -- -- titanium-dioxide -- -- -- 20.0 -- red iron oxide 2.0 2.0 2.0 2.0 2.0
 Synthetic Ochre 2.0 2.0 2.0 2.0 2.0 ----- Smell ** O x ** O Feeling
 of use x O O x O Blot prevention x x O It O ** Is somber, and amends. O O x x O-----
 ----- [0019]

[Table 3]

A lip stick ----- Example Example Example Example Example A
 raw material name 8 9 10 11 12 ----- Polyethylene wax 5.0 5.0 5.0
 5.0 A 5.0 ceresin wax 5.0 5.0 5.0 5.0 5.0 carnauba waxes 7.0 7.0 7.0 7.0 7.0
 GURISERIRUTORI 2-ethylhexanoate 32.78 22.78 52.78 32.78 22.78 Macadamia-nuts oil
 20.0 20.0 10.0 30.0 30.0 composition phlogopite fine particles *1 20.0 30.0 10.0 10.0 20.0
 titanium dioxide 2.0 2.0 2.0 2.0 2.0 red iron oxide 1.0 1.0 1.0 1.0 1.0 Synthetic Ochre 1.0 1.0
 1.0 1.0 1.0 black iron oxide 0.5 0.5 0.5 0.5 0.5 red No. 202 0.2 0.2 0.2 0.2 0.2 red No. 204 5.5
 5.5 5.5 5.5 5.5 perfume 0.02 0.02 0.02 0.02 0.02 ----- Smooth
 mileage O O O O O It is admiration gently. O O O O O Blot prevention O O O O O Vividness
 O O O O O----- [0020]

[Table 4]

A lip stick ----- Example Example Example Example Example A
 raw material name 13 14 15 16 17 ----- Polyethylene wax 5.0 5.0 5.0
 5.0 5.0 ceresin wax 5.0 5.0 5.0 5.0 5.0 carnauba waxes 7.0 7.0 7.0 7.0 7.0
 glyceryl-tri-2-ethylhexanoate 32.78 22.78 52.78 32.78 22.78 Macadamia-nuts oil -- -- --
 15.0 olive oil 20.0 -- -- 15.0 10.0 glyceryl TORIISO stearate -- 20.0 -- 15.0 -- jojoba oil -- --
 10.0 -- 5.0 synthetic-mica fine particles *1 -- -- -- 15.0 synthetic-mica fine particles *2 20.0
 -- 10.0 -- 5.0 synthetic-mica fine particles *3 -- 30.0 -- 10.0 A -- titanium dioxide 2.0 2.0 2.0
 2.0 A 2.0 red iron oxide 1.0 1.0 1.0 1.0 1.0 Synthetic Ochre 1.0 1.0 1.0 1.0 1.0 black iron
 oxide 0.5 0.5 0.5 0.5 0.5 red No. 202 0.2 0.2 0.2 0.2 0.2 red No. 204 5.5 5.5 5.5 5.5 5.5
 perfume 0.02 0.02 0.02 0.02 0.02 ----- Smooth mileage O O O O O
 Gently Admiration O O O O O Blot prevention O O O O O Vividness O O O O O-----
 ----- -- *2:KMg 2.5 (Si 4O10)F2 Potassium 4 silicon mica *3:NaMg three
 F(AlSi 3O10) 2 Sodium phlogopite [0021]

[Effect of the Invention] Since synthetic mica fine particles and an I.O.B. value used less than
 0.2 liquefied oil exceeding 0 according to the cosmetics for lips concerning this invention as
 explained above, it is finished automatically, and a smell is good and can obtain smooth
 mileage and the cosmetics for the lips which it excels in usability, such as admiration, gently,
 and there are few blots of the cosmetics for lips in the passage of time, and prevent the
 dullness of lips.
